

Total Phosphorus
SM 14th Ed. 425 C E (Persulfate Digestion)

Facility Name: _____ VELAP ID _____

Assessor Name: _____ Analyst Name: _____ Inspection Date _____

Relevant Aspect of Standards**Method
Reference****Y****N****N/A****Comments***Records Examined:* SOP Number/ Revision/ Date _____ Analyst: _____

Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____

To suitable sample size is 1 drop of phenolphthalein added and if turns red, is H₂SO₄ added until color disappears?

SM 425C.3.a

Is 1 additional drop of H₂SO₄ added and 0.4 gm of ammonium Persulfate?

SM 425C.3.a

Is sample boiled gently for 30-40 minutes or until volume of 10 mL?

SM 425C.3.b

Is sample cooled and 30 mL H₂O added and phenolphthalein added?

SM 425C.3.b

Is sample neutralized with NaOH and diluted to 100 mL?

SM 425C.3.b

If precipitate forms is sample NOT filtered?

SM 425C.3.b

Is sample analyzed at 690 nm (650 acceptable)

SM 425E.2

Is molybdate and SnCl reagents added and reading taken at 10 to 12 minutes?

SM 425E.4.b-c

The sample may be extracted with 50 mL of benzene-isobutanol for increased sensitivity or due to interferences.

SM 425E.4.d

Notes/ Comments: